

Art Unit: ***

K.E.J.

<claim-text>1.(currently amended) microscope illuminator, comprising: </claim-text>

<claim-text>a point source light radiator ~~so configured as to efficiently intercept the a spherical radiation pattern~~, enclosed in a circumferential shroud of multiple optical fibers;

said optical fibers being recombined to form a tightly-shaped, singular output for illumination of microscope specimens. </claim-text></claim>

<claim-text>2.(original) The microscope illuminator of claim 1, further comprising:
</claim-text>

<claim-text> a vertical positioning system;

said system capable of altering the relative vertical position between the radiator and the fiber optic shroud to achieve an attenuation control of the transferred energy without altering its spectral characteristics. </claim-text></claim>

<claim-text>3.(cancelled) The light capturing assembly of claim 2, further serve comprising: </claim-text>

<claim-text>a drive system capable of positioning the fiber array and/or the light source mechanically or electromechanically to achieve the desired degree of light attenuation.
</claim-text></claim>

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<claim-text>4.(currently amended) The ~~light capturing assembly~~ microscope illuminator of claim 32, further ~~photovoltaic~~ is ing comprising: </claim-text>

<claim-text>a solar panel array;

said array positioned above and/or below the ~~fiber array~~ the point source radiator;

~~that converts~~ so positioned to intercept that portion of the light energy that is not captured by the fiber ~~arrays~~ shroud and to convert this energy into an electrical power source to position the aforementioned drive systems . </claim-text></claim>

<claim-text>5.(cancelled) The light capturing assembly of claim 1, further comprising:
</claim-text>

<claim-text>an electrically controlled variable light attenuator positioned in the output light path. This attenuator is powered by the solar panel(s) of claim 4 and actuated either locally or remotely. </claim-text></claim></claims>
<abstract-of-disclosure>